

What is claimed is:

1. A prepolymer (A) having end groups of the general formula [1]

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where

R¹ is an optionally halogen-substituted alkyl, cycloalkyl, alkenyl or aryl radical having 1-10 carbon atoms,

R² is an alkyl radical having 1-6 carbon atoms or an ω -oxaalkyl-alkyl radical having in all 2-10 carbon atoms, and

15 a is a number from 0 to 2,

the prepolymer (A) being obtainable by reacting

1) polyol (A1) having an average molecular weight Mn of 1000 to 25 000,

20 2) low molecular weight alcohol (A2) having at least two hydroxyl groups per molecule and a molecular weight of 62 to 300,

3) di- or polyisocyanate (A3), and

4) alkoxy silane (A4) possessing an isocyanate group or an isocyanate-reactive group, ..

25 the low molecular weight alcohol (A2) and the polyol (A1) being used in a molar ratio of 0.3:1 to 7:1.

30 2. The prepolymer (A) as claimed in claim 1, which is isocyanate-free.

35 3. The prepolymer (A) as claimed in claim 1 or 2, in which the alkoxy silane-terminated polymer (A) possesses end groups of the general formula [2]



where

A is a divalent linking group selected from -O-, -S-, -(R³)N-, -O-CO-N(R³)-, -N(R³)-CO-O-, -NH-CO-NH-, -N(R⁴)-CO-NH-, -NH-CO-N(R⁴)-, and -N(R⁴)-CO-N(R⁴)-,

5 R³ is hydrogen, an optionally halogen-substituted cyclic, linear or branched C₁ to C₁₈ alkyl radical or alkenyl radical or a C₆ to C₁₈ aryl radical,

10 R⁴ is an optionally halogen-substituted cyclic, linear or branched C₁ to C₁₈ alkyl radical or alkenyl radical or a C₆ to C₁₈ aryl radical, and R¹, R² and a are as defined for the general formula [1] as in claim 1.

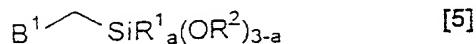
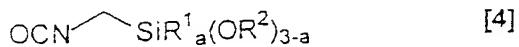
15 4. The prepolymer (A) as claimed in any one of claims 1 to 3, in which the polyols (A1) are selected from hydroxyl-functional polyethers, polyesters, polyacrylates and polymethacrylates, polycarbonates, polystyrenes, polysiloxanes, polyamides, polyvinyl esters, polyvinyl hydroxides and polyolefins.

20 5. The prepolymer (A) as claimed in any one of claims 1 to 4, in which the low molecular weight alcohols (A2) are selected from glycol, 1,3-propanediol, 1,3-butanediol, 1,4-butanediol, regioisomeric pentadiols and hexadiols, ethylene glycol and propylene glycol.

25 30 6. The prepolymer (A) as claimed in any one of claims 1 to 5, in which the di- or polyisocyanates (A3) are selected from diisocyanatodiphenylmethane (MDI), tolylene diisocyanate (TDI), diisocyanato-naphthalene (NDI), isophorone diisocyanate (IPDI), perhydrogenated MDI (H-MDI), hexamethylene diisocyanate (HDI), polymeric MDI (P-MDI), triphenylmethane triisocyanate, isocyanurate triisocyanates and biuret triisocyanates.

7. The prepolymer (A) as claimed in any one of claims 1 to 6, in which the alkoxy silanes (A4) are selected from silanes of the general formulae [4] and [5]

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where

10 B^1 is an OH, SH or NH₂ group or a group HR⁴N and R¹, R², R⁴ and a are as defined for the general formulae [1] and [2] as in claim 1 and claim 3.

8. A composition (M) comprising a prepolymer as claimed in any one of claims 1 to 7.

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9. The composition (M) as claimed in claim 8, comprising fillers (E) selected from calcium carbonate, silica, and carbon black.

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10. The composition (M) as claimed in claim 8, containing no fillers (E).

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11. The composition (M) as claimed in any one of claims 8 to 10, containing 0-20% by volume of an organic solvent (F).